

(19)

(11) Publication number: 2000333691 A

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PATENT ABSTRACTS OF JAPAN

(21) Application number: 11146357

(51) Int'l. Cl.: C12P 17/02 C07C 69/716

(22) Application date: 26.05.99

(30) Priority:

(43) Date of application
publication: 05.12.00

(84) Designated contracting
states:

(71) Applicant: MITSUI CHEMICALS INC

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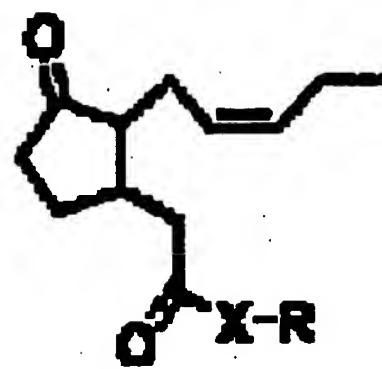
(74) Representative:

(54) PRODUCTION OF TAXANE DITERPENE

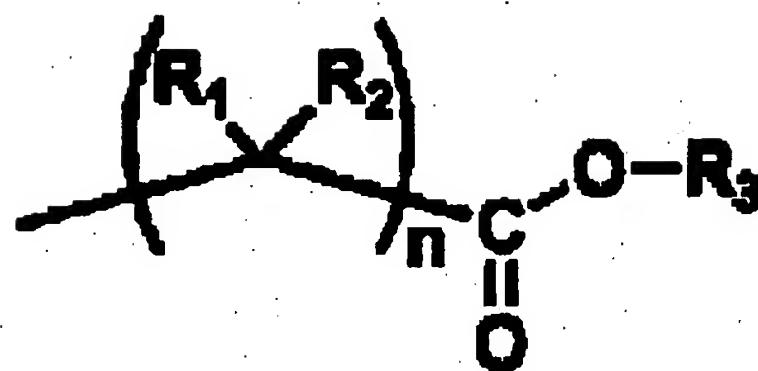
(57) Abstract:

PROBLEM TO BE SOLVED: To simply produce a taxane diterpene that is useful as a therapeutic agent for ovarian cancer, mammary cancer, lung cancer or the like by culturing the cells or tissue of a plant that can produce the taxane diterpene in a culture medium including a specific jasmonic acid.

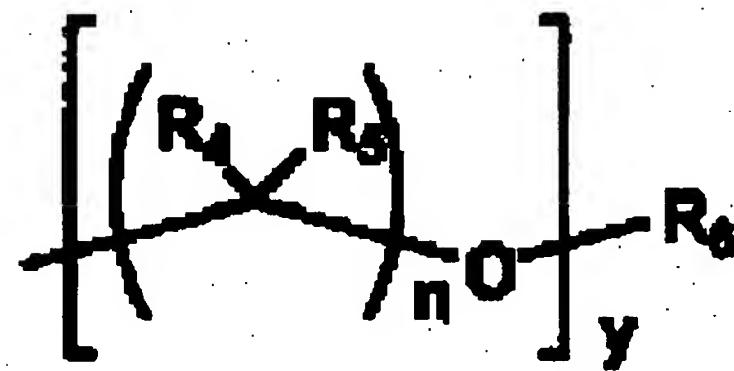
SOLUTION: Cells or tissues of a plant producing a taxane diterpene, for example, *Taxus brevifolia* NUTT are cultured in the presence of a jasmonic acid derivative represented by formula I [X is O, S, NH; R is formula II (R1 and R2 are each H, OH, 1-6C alkyl; R3 is H, a 1-6C alkyl; an aryl which may be substituted, an arylalkyl which may be substituted; n is an integer of 1-5)], or formula III (R4 and R5 are each identical to R1; y is an integer of 1-5) and the objective taxane diterpene is collected from the resultant culture mixture. This taxane diterpene is useful as a therapeutic agent for ovarian cancer, mammary cancer, lung cancer or the like.



I

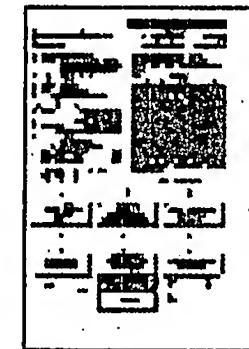


II

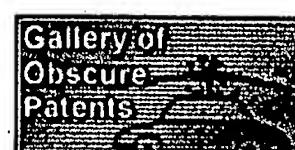


III

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HARA YASUHIRO;
SETO HIDEHARU;**Assignee:** MITSUI CHEMICALS INC
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Published / Filed: Dec. 5, 2000 / May 26, 1999**Application Number:** JP1999000146357**IPC Code:** C12P 17/02; C07C 69/716; C12P 17/02; C12R 1/91;**ECLA Code:** None**Priority Number:** May 26, 1999 JP1999000146357**Other Abstract Info:** CHEMABS 134(01)004116A CHEMABS 134(01)004116A DERABS
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